

Human beta-III Tubulin antibody

Catalog Number: ATGA0343

PRODUCT INFORMATION

Catalog number

ATGA0343

Clone No.

AT2F5

Product type

Monoclonal Antibody

UnitProt No.

Q13509

NCBI Accession No.

NP_006077

Alternative Names

Tubulin beta 3 class III, Tubulin, beta 3 class III, beta-4, CDCBM, CFEOM3A, TuBB4, TUBB3, FEOM3, fibrosis of extraocular muscles, congenital

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human TUBB3 (1-450aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Tubulin Beta 3 is 450 amino acid protein. Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha-chain. TUBB3 plays a critical role in proper axon guidance and maintenance. Its expression is primarily restricted to central and peripheral nervous system.

General References

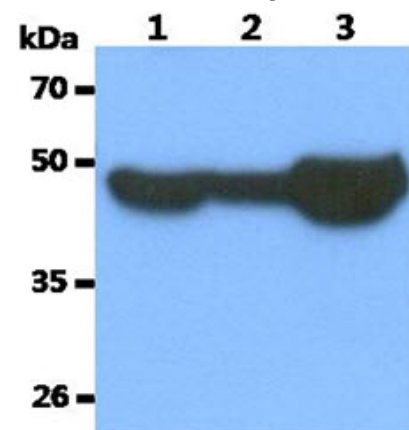
Qu C., et al. (2013) J Cell Sci. 126(14): 3070-3081.

Marczak A., et al. (2015) Postepy Hig Med Dosw. 69: 158-164.

McCarroll J.A., et al. (2015) Cancer Res. 75(2): 415-425.

DATA

Western blot analysis (WB)



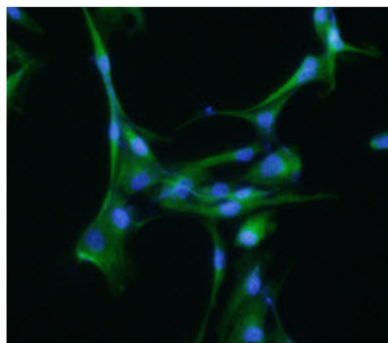
The cell lysates (40ug) and tissue lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Tubulin Beta 3 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate

Lane 2.: 293T cell lysate

Lane 3.: Mouse Brain tissue lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

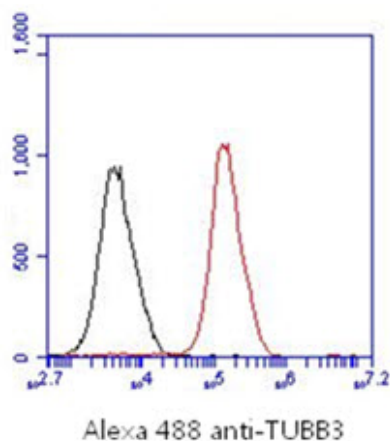


ICC/IF analysis of Tubulin Beta 3 in U-87MG cells. The cell was stained with ATGA0343 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of Tubulin Beta 3 in U-87MG cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).